Patent Claims

5

10

- A dry additive for hydraulic binder, characterized in that a liquid additive (1) is disposed in a microporous carrier (2).
 - The dry additive as claimed in claim characterized in that the liquid additive (1) is a liquefier, accelerator, retardant, antifoaming agent, shrinkage reducer or a corrosion inhibitor.
- 3. The dry additive as claimed in claim 2, characterized in that the liquid additive (1) is a corrosion inhibitor, in particular an alkanolamine, an 15 alcohol, an organic acid or a phosphonate, preferably mono-ethanolamine.
- The dry additive as claimed in one of claims 1 to 3, characterized in that the microporous carrier (2) 20 is molecular sieve, in particular zeolites, preferably a zeolite A, Linde Type A (LTA).
- 5. The dry additive as claimed in claim characterized in that the microporous carrier (2) is present in powder form, in particular with a mean 25 particle diameter of less than 100 micrometers, preferably between 100 and 10 micrometers, preferably between 50 and 25 micrometers.
- 30 6. The dry additive as claimed in one of claims 1 to 5, characterized in that the microporous carrier has a pore diameter between 3 and 10 Angström, preferably between 4 and 8 Angström.
- 35 7. The dry additive as claimed in one of claims 1 to 6, characterized in that the carrier (2) loaded with the liquid additive (1) has a storage stability of more than one year.

- 8. A hydraulically setting composition (3) containing a dry additive as claimed in one of claims 1 to 7 and a hydraulic binder.
- 5 9. The hydraulically setting composition as claimed in claim 8, characterized in that the hydraulic binder contains a cement, in particular a Portland cement.
- 10 10. The hydraulically setting composition as claimed in claim 8 or 9, characterized in that the storage stability is as long, or at least 90% as long, as that of the corresponding hydraulically setting composition without the dry additive as claimed in claim 1 to 7.
- 11. The hydraulically setting composition as claimed in one of claims 8 to 10, characterized in that the hydraulically setting composition is a ready-mixed 20 mortar, a repair mortar, a dry-mix mortar or a concrete.
- 12. A cured hydraulic composition obtained by the curing of a hydraulically setting composition as claimed in one of claims 8 to 11 by means of water.
- 13. A process for the release of a liquid additive from a dry additive as claimed in one of claims 1 to 7, characterized in that the dry additive is brought into 30 contact with water.
 - 14. A use of a dry additive as claimed in one of claims 1 to 7 in a composition which contains a hydraulic binder.

35

15. A process for the production of a dry additive as claimed in one of claims 1 to 7, characterized in that a liquid additive is mixed into a microporous material and stirred.

- 16. A process for the rehabilitation of a cured hydraulic composition (3a) comprising the steps
 - a) mixing of a hydraulically setting composition as claimed in one of claims 8 to 11 with water,
 - b) release of the liquid additive,

5

- c) application of the hydraulic composition mixed with water onto the cured hydraulic composition (3a),
- d) migration of the liquid additive into the cured hydraulic composition (3a), wherein the steps b) and c) can also take place at the same time or in reverse order.
- 15 17. The process for rehabilitation as claimed in claim 16, characterized in that the liquid additive is a corrosion inhibitor, in particular an alkanolamine, an alcohol, an organic acids or a phosphonate.
- 20 18. The process for rehabilitation as claimed in claim 16 or 17, characterized in that the cured hydraulic composition (3a) contains reinforcing iron (4).
- 19. The process for rehabilitation as claimed in claim 18, characterized in that the corrosion inhibitor migrates through the cured hydraulic composition (3a) and is absorbed onto the reinforcing iron.